

इंटरनेट

मानक

Disclosure to Promote the Right To Information

Whereas the Parliament of India has set out to provide a practical regime of right to information for citizens to secure access to information under the control of public authorities, in order to promote transparency and accountability in the working of every public authority, and whereas the attached publication of the Bureau of Indian Standards is of particular interest to the public, particularly disadvantaged communities and those engaged in the pursuit of education and knowledge, the attached public safety standard is made available to promote the timely dissemination of this information in an accurate manner to the public.

“जानने का अधिकार, जीने का अधिकार”

Mazdoor Kisan Shakti Sangathan

“The Right to Information, The Right to Live”

“पुराने को छोड़ नये के तरफ”

Jawaharlal Nehru

“Step Out From the Old to the New”

IS 4455 (1967): Trolleys, Soiled Linen [MHD 12: Hospital Equipment]



“ज्ञान से एक नये भारत का निर्माण”

Satyanarayan Gangaram Pitroda

“Invent a New India Using Knowledge”



“ज्ञान एक ऐसा खजाना है जो कभी चुराया नहीं जा सकता है”

Bhartrhari—Nitiśatakam

“Knowledge is such a treasure which cannot be stolen”

BLANK PAGE



IS : 4455 - 1967
(Reaffirmed 1977)

Indian Standard
SPECIFICATION FOR
TROLLEYS, SOILED LINEN

(First Reprint DECEMBER 1983)

UDC 615.478.37



© Copyright 1968

INDIAN STANDARDS INSTITUTION
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

Indian Standard

SPECIFICATION FOR TROLLEYS, SOILED LINEN

Hospital Equipment Sectional Committee, CPDC 14

Chairman

SHRI A. S. BHATHENA

Representing

National Steel Equipment Co, Bombay

*Members*PROF T. R. SARKARI (*Alternate to*

Shri A. S. Bhathena)

SHRI G. BHATTACHARYA

SHRI D. LAHIRI (*Alternate*)

SHRI G. B. JAKHETIA

SHRI V. S. KALBAG

SHRI V. KRISHNAMOORTHY

SHRI S. S. MOTAFRAM

SHRI P. K. PRADHAN (*Alternate*)

SHRI M. G. PANDIT

DR A. RAMDAS

MAJ V. P. SETHI

MAJ SOHAN SINGH

SHRI K. L. TALWAR

Adair Dutt & Co (India) Pvt Ltd, Calcutta

Development Commissioner, Small Scale Industries

Tempo Industrial Corporation, Bombay

Directorate General of Technical Development

Elpro International Ltd, Chinchwad

Ministry of Health & Family Planning

Railway Board (Ministry of Railways)

Ministry of Defence (DGAFMS)

Ministry of Defence (DGI)

Chief Inspectorate of General Stores [Ministry of

Defence (DGI)], Kanpur

ULTRADENT Private Ltd, Bombay

SHRI R. N. VIG

SHRI D. N. VIG (*Alternate*)

SHRI A. B. RAO,

Director (Const Prod)

Director General, ISI (*Ex-officio Member*)*Secretary*

SHRI R. I. MIDHA

Deputy Director (Const Prod)

Hospital Furniture Subcommittee, CPDC 14 : 1

Condenser

DR A. RAMDAS

Railway Board (Ministry of Railways)

Members

SHRI B. L. ARORA

SHRI A. S. BHATHENA

SHRI J. A. BHATHENA (*Alternate*)

SHRI R. C. JAIN

SHRI G. B. JAKHETIA

SHRI A. J. MEHTA

SHRI M. G. PANDIT

SHRI P. G. SALGAONKAR

MAJ V. P. SETHI

SHRI E. A. SHAIKH

SHRI A. H. SHAIKH (*Alternate*)

SHRI AMRIT LAL VIG

India Medico Instruments, Delhi

National Steel Equipment Co, Bombay

General Trades Agencies, Delhi

Development Commissioner, Small Scale Industries

Janak Manufacturing Works, Bombay

Ministry of Health & Family Planning

New Haven Steel Ball Corporation Pvt Ltd, Bombay

Ministry of Defence (DGAFMS)

Special Equipment Co, Bombay

Imperial Surgico Industries, Lucknow

INDIAN STANDARDS INSTITUTION
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI

Indian Standard

SPECIFICATION FOR TROLLEYS, SOILED LINEN

0. FOREWORD

0.1 This Indian Standard was adopted by the Indian Standards Institution on 11 December 1967, after the draft finalized by the Hospital Equipment Sectional Committee had been approved by the Consumer Products Division Council.

0.2 The formulation of Indian Standards on hospital equipment has been taken up at the instance of the Advisory Committee for the Development of Surgical Instruments, Equipment and Appliances (Government of India).

0.3 This standard is one of a series of Indian Standards on hospital furniture. Other standards in this series are:

IS : 4033-	General requirements for hospital furniture (<i>under preparation</i>)
IS : 4034-	Specification for castors for hospital equipment (<i>under preparation</i>)
IS : 4035-1967	Specification for trolleys, stretcher
IS : 4036-1967	Specification for trolleys, patient
IS : 4037-1967	Specification for stretcher and stretcher carriers
IS : 4266-1967	Specification for lockers, bedside
IS : 4267-1967	Specification for stands, wash hand basin
IS : 4458-1967	Specification for screens, bedside

0.4 In preparing this standard assistance has been derived from B.S. 2854 : 1957 'Specification for soiled linen trolleys' issued by the British Standards Institution.

0.5 In some of the clauses of this standard, reference has been made to IS : 4033* and IS : 4034† which are under preparation. Until these standards are published, the requirements in such clauses shall be subject to agreement between the concerned parties.

*General requirements for hospital furniture (*under preparation*).

†Specification for castors for hospital equipment (*under preparation*).

0.6 Suggestions relating to cotton canvas for making bags for trolleys are given in Appendix A.

0.7 For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS : 2-1960*. The number of significant places retained in the rounded off value should be the same as that of the specified value in this standard.

1. SCOPE

1.1 This standard specifies the requirements of single-bag soiled linen trolleys used in hospitals and other similar institutions.

2. MATERIAL

2.1 Framework — shall conform to 2.1 of IS : 4033†.

2.2 Castors — shall conform to IS : 4034‡.

3. SHAPE AND DIMENSIONS

3.1 The shape of the soiled linen trolley is shown in Fig. 1 and the principal dimensions shall be as indicated in the figure. The dimensions of the bag are also given therein. The tube used shall be 1.22 mm thick; the minimum outside diameter for various portions of the framework being as follows:

<i>Component</i>	<i>Minimum Outside Diameter</i>
	mm
Ring	15.88
Vertical members	25.40
Y-support	15.88

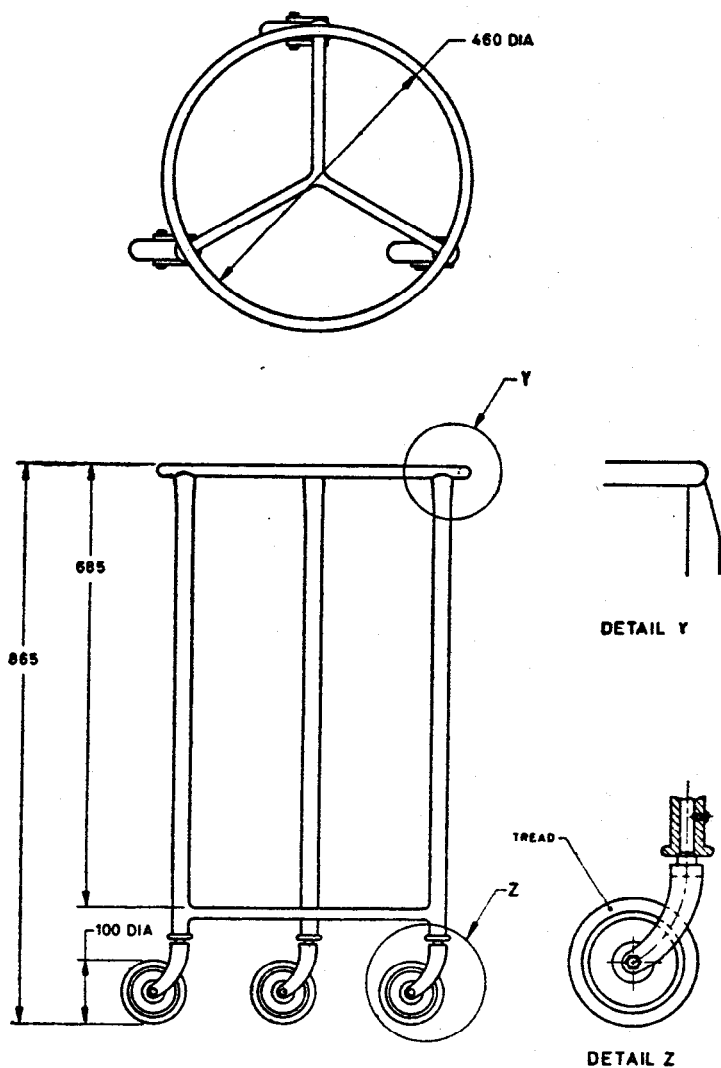
4. MANUFACTURE

4.1 Framework — The framework shall comprise three vertical tubes, flattened at their upper ends and welded to the ring, the flattening being arranged to form a recess external to the framework to retain the draw string of the bag. Near their lower ends the vertical tubes shall be joined to a Y-shaped support.

*Rules for rounding off numerical values (*revised*).

†General requirements for hospital furniture (*under preparation*).

‡Specification for castors for hospital equipment (*under preparation*).



SIZE OF BAG 760 × 480 DIA

All dimensions in millimetres.

FIG. 1 SOILED-LINEN TROLLEY, SINGLE BAG

4.2 Castors — Each trolley shall be provided with three castors 100 mm in diameter. The rest of the details shall conform to 4.2 of IS : 4033*.

4.3 Canvas Bag — The bag shall be made with lapped seams along each join, the seams being double sewn with glaze cotton thread of 60 tex/3 (or 10s/3) count, having minimum single thread breaking load (50 cm gauge length) of 4.10 kg. The opening of the bag shall have a 40-mm hem and two 75-mm vents, one on vertical seam and other directly opposite; the end of each vent shall be reinforced. The hem shall be threaded with braided draw string not less than 10 mm in circumference.

5. WORKMANSHIP AND FINISH

5.1 Workmanship and finish shall conform to 5 of IS : 4033*.

6. MARKING

6.1 The marking shall be as specified in 7 of IS : 4033*.

7. PACKING

7.1 The packing shall be as specified in 8 of IS : 4033*.

APPENDIX A

(Clause 0.6)

CANVAS FOR BAGS

A-1. No requirements for canvas have been included in this standard as it is considered that the choice of material for bags should rest with the purchaser. However, it is desirable that the bag shall be made of shrunk cotton canvas (waterproofed) having a minimum weight 605 g/m².

*General requirements for hospital furniture (under preparation).

INTERNATIONAL SYSTEM OF UNITS (SI UNITS)

Base Units

Quantity	Unit	Symbol
Length	metre	m
Mass	killogram	kg
Time	second	s
Electric current	ampere	A
Thermodynamic temperature	kelvin	K
Luminous intensity	candela	cd
Amount of substance	mole	mol

Supplementary Units

Quantity	Unit	Symbol
Plane angle	radian	rad
Solid angle	steradian	sr

Derived Units

Quantity	Unit	Symbol	Conversion
Force	newton	N	1 N = 1 kg. 1 m/s ²
Energy	joule	J	1 J = 1 N.m
Power	watt	W	1 W = 1 J/s
Flux	weber	Wb	1 Wb = 1 V.s
Flux density	tesla	T	1 T = 1 Wb/m ²
Frequency	hertz	Hz	1 Hz = 1 c/s (s ⁻¹)
Electric conductance	siemens	S	1 S = 1 A/V
Pressure, stress	pascal	Pa	1 Pa = 1 N/m ²

INDIAN STANDARDS INSTITUTION

Manak Bhavan, 9 Bahadur Shah Zafar Marg, NEW DELHI 110002

Telephones : 26 60 21, 27 01 31

Telegrams : Manaksanstha

Regional Offices:

		Telephone
Western : Novelty Chambers, Grant Road	BOMBAY 400007	37 97 29
Eastern : 5 Chowringhee Approach	CALCUTTA 700072	23-08 02
Southern : C. I. T. Campus, Adyar	MADRAS 600020	41 24 42

Branch Offices:

'Pushpak', Nurmohamed Shaikh Marg, Khanpur	AHMADABAD 380001	2 03 91
'F' Block, Unity Bldg. Narasimharaja Square	BANGALORE 560002	2 76 49
Gangotri Complex, Bhadbhada Road, T.T. Nagar	BHOPAL 462003	6 27 16
22E Kalpana Area	BHUBANESHWAR 751014	5 36 27
Ahimsa Bldg, SCO 82-83, Sector 17C	CHANDIGARH 160017	2 83 20
5-8-56C L. N. Gupta Marg	HYDERABAD 500001	22 10 83
D-277 Todarmal Marg, Banipark	JAIPUR 302006	6 98 32
117/418 B Sarvodaya Nagar	KANPUR 208005	8 12 72
Patliputra Industrial Estate	PATNA 800013	6 28 08
Hantex Bldg (2nd Floor), Rly Station Road	TRIVANDRUM 695001	32 27